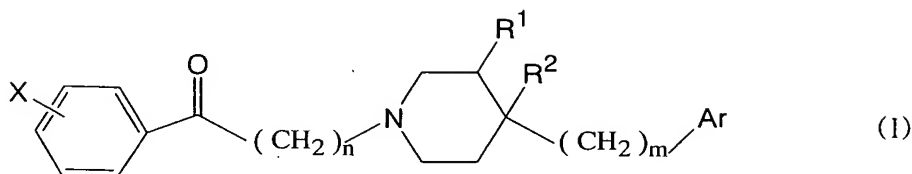


CLAIMS

1. A compound of the formula (I):

[Chemical Formula 1]



wherein X is OH or lower alkylsufonyloxy;

Ar is optionally substituted aryl or optionally substituted heteroaryl;

n is an integer of 1 to 4;

m is an integer of 0 to 1;

R¹ is hydrogen;

R² is OH or

R¹ and R² taken together may form a single bond;

excluding that

1) n is 2; m is 0; R¹ and R² taken together may form a single bond; and Ar is optionally substituted phenyl and

2) n is 3; m is 0; R¹ and R² taken together may form a single bond; and Ar is phenyl, a pharmaceutically acceptable salt or a solvate thereof.

2. The compound described in Claim 1 wherein n is 3 or 4, a pharmaceutically acceptable salt, or a solvate thereof.

3. The compound described in Claim 1 wherein m is 1, a pharmaceutically acceptable salt or a solvate thereof.

4. The compound described in Claim 1 wherein n is 3; m is 1; and Ar is optionally substituted phenyl, a pharmaceutically acceptable salt or a solvate thereof.

5. The compound described in Claim 1 wherein n is 3; m is 1; R¹ is hydrogen; R² is OH; and Ar is optionally substituted phenyl, a pharmaceutically acceptable salt or a solvate thereof.

6. The compound described in Claim 1 wherein n is 3; m is 1; R¹ and R² taken together may form a single bond; and Ar is optionally substituted phenyl, a pharmaceutically acceptable salt, or a solvate thereof.

7. The compound described in Claim 1 wherein n is 3; m is 0; R¹ and R² taken together may form a single bond; and Ar is substituted phenyl, a pharmaceutically acceptable salt, or a solvate thereof.

8. The compound described in Claim 1 wherein Ar is optionally substituted

heteroaryl, a pharmaceutically acceptable salt or a solvate thereof.

9. The compound described in Claim 1 wherein n is 3; m is 0; R¹ and R² taken together may form a single bond; and Ar is optionally substituted heteroaryl, a pharmaceutically acceptable salt or a solvate thereof.

10. A pharmaceutical composition containing the compound described in any one of Claim 1 to 9.

11. The pharmaceutical composition described in Claim 10 having NMDA receptor antagonistic activity.

12. The pharmaceutical composition described in Claim 11 having NR1/NR2B receptor antagonistic activity.

13. A pharmaceutical composition containing the compound described in any one of Claims 1 to 9 which is an analgesic or a medicament for treating migraine, stroke, head injury, Alzheimer's disease, Parkinson's disease, or tinnitus.

14. A pharmaceutical composition containing the compound described in any one of Claims 1 to 9 which is an analgesic.

15. A method for alleviating pain or treating migraine, stroke, head injury, Alzheimer's disease, Parkinson's disease, or tinnitus comprising administering the compound described in any one of Claims 1 to 9.

16. A method for alleviating pain comprising administering the compound described in any one of Claims 1 to 9.

17. Use of the compound described in any one of Claims 1 to 9 for manufacturing an analgesic or a medicament for treating migraine, stroke, head injury, Alzheimer's disease, Parkinson's disease, or tinnitus.

18. Use of the compound described in any one of Claims 1 to 9 for manufacturing an analgesic.